

UNIVERSITY OF KENTUCKY

UK's Coldstream Research Campus Connects Business and Research

Redundant Power and Fiber Optics Available First Quarter 2010

Coldstream Research Campus is now positioned in the top tier of research parks in the Midwest with the addition of redundant power and fiber optics. This important infrastructure enhancement, financed primarily with a \$5.5 million grant from the Kentucky Economic Development Finance Authority's High-Tech Investment Pool, ensures that if one source of power malfunctions, a second can pick up the slack without interruption. Fiber optics provide some of the

highest Internet connection speeds possible, letting companies share large amounts of data quickly with suppliers, partners, researchers and customers.

"We know that redundant power and fiber optics are important to the types of companies we want at Coldstream – data and technology centers, biotech and pharmaceutical research labs, and equine testing and diagnostic facilities," says **Len Heller**, UK vice president for Commercialization & Economic Development.

Nanotech-Based Topasol Partners with Major Coatings Manufacturer



UK researcher **Uschi Graham**, front, and two of Topasol's senior scientists, **Ken Partymiller** and **Rajesh Khatri**, test scratch resistance of their coatings.

UK Center for Applied Energy Research scientist **Uschi Graham**, who moved her company from UK's ASTeCC campus incubator to Coldstream last year, is partnering with large coatings manufacturer PPG to develop nanoparticle-based additives designed to enhance a range of coating materials. The new low gloss and abrasion resistant nanocoating will have applications in solar cells, LCD displays, and paper and pipe substrates, as well as automotive and aerospace top coats. Topasol's international R&D team of four Ph.D.s, lead by principal research scientist Rajesh Khatri, also developed a breakthrough design on impact sensor nanocoatings for aircraft exteriors for the Navy. Other projects include developing smart coating systems that have the ability for visual impact recognition.



Allylix is using molecular genetics, biochemistry and structural biology research from the University of Kentucky College of Agriculture and the Salk Institute for Biological Sciences to produce low-cost natural products called terpenes for a variety of markets, including clean fuels and fuel additives.

Equine Diagnostic Lab Reopens as New Business

UK graduates **Jennifer Morrow** and **Amy Graves** went from employees to entrepreneurs when they opened Equine Diagnostic Solutions LLC (EDS) at Coldstream last fall. The two had worked for IDEXX/ Equine Biodiagnostics until the company merged the Coldstream lab with one in California.

Now, with the addition of a full-time employee, EDS is back in business performing specialty diagnostic tests not usually available from veterinarians. EDS uses technology originally developed in the labs at the UK Gluck Equine Research Center, part of the College of Agriculture. **David Granstrom** founded the original company, Equine Biodiagnostics Inc., in 1995 to test for equine neurologic diseases, including Equine Protozoal Myeloencephalitis. Morrow and Graves plan to develop second generation tests through new partnerships with UK.



New owners **Jennifer Morrow**, back, and **Amy Graves** prepare samples to be tested.

For more information on the news and developments at UK's Coldstream Research Campus, see www.UKColdstream.com and UKEconDevNews.